FORM @	E OF UTAH		
	DIVISION C .L, GAS AND I	MINING	1
			5, Lease Designation and Serial Number:
			N7570 6. Windlen, Allottee or Tribe Name:
SUNDRY	NOTICES AND REPOR	TS ON WELLS	
Do not use this form for propi Use APPL	ceals to drill new wells, deepen existing wells, or t ICATION FOR PERMIT TO DRILL OR DEEPEN for	o reenter plugged and abandoned wells. m for such proposals.	7. Unit Agreement Name:
1. Type of Well: OIL X GAS	OTHER:		8. Well Name and Number:
2. Name of Operator:			9. API Well Number:
Kenneth Pixley			
3. Address and Telephone Number:	07 70501 (50	0) (00 (00)	10. Field and Pool, or Wildcat:
	us, OK 73521 (58 ; O8N 07W 17	0) 482–4082	Rozel Point
Footages:	; UON U/W I/		County: Box Elder
QQ, Sec.,T.,R.,M.:			State: Utah
11. CHECK APPRO	PRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REP	ORT, OR OTHER DATA
NOTIC	CE OF INTENT	SUBS	EQUENT REPORT
(Sub	mit in Duplicate)	(Subr	nit Original Form Only)
☐ Abandon	☐ New Construction	Abandon *	□ New Construction
Repair Casing	☐ Pull or Alter Casing	Repair Casing	Pull or Alter Casing
☐ Change of Plans	☐ Recomplete	☐ Change of Plans	☐ Reperforate
☐ Convert to Injection	☐ Reperforate	Convert to Injection	☐ Vent or Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion ☐ Other See Below	☐ Weter Shut-Off	Other	
		Date of work completion	
Approximate date work will start		Report results of Multiple Completion	e and Recompletions to different reservoirs on WELL
		COMPLETION OR RECOMPLETION R	
		* Must be accompanied by a cement ve	rification report.
DESCRIBE PROPOSED OR COMPLETED vertical depths for all markers and zones		and give pertinent dates. If well is directionally dr	illed, give subsurface locations and measured and true
43-003-15583	•	These wells were plug	gged by E.P.A.
43-003-15584			-
43-003-15586 43-003-20033 43-003-30024	•		to fresh water they ximately 3' of salt water.
43-003-30024		We plan to reopen the	ese wells in the near
		future. The timing i	s to be determined by
lln	(MAR 2 MARA)	by the control of wat	er in the Great Salt Lake
[]()	\ MAR 3 1 1999 U		
		COPY SENT TO OPERATOR	
DI	/. OF OIL, GAS & MINING		
13.	0.1		
Name & Signature: Kunsull	the Pixley !	Title: Presiden	Deate: 3-26-4
This space for State use only)	Linda	More	•
Par Edie Trimine	n o Forestry, Five,	& State Lunds! Assign 1	Accepted by the lease Utah Division of
4 /	to the second	They bear an board	Accepted devel lease
70 new aperator 13	s penaing oonding	. I -good word	Utah Division of
Edie to notity u	's it new	(Oil, Gas and Mining
lease holder post	s bonds (See Instr	uctions on Reverse Side)	•
Otherwise this	may real to go to	Board. Date:	5-19-99
for plugging or de	,	By:	RTE



Norman H. Bangerter Dee C. Hansen

Executive Director Dianne R. Nielson, Ph.D. Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

December 6, 1991

To:

R. J. Firth

D. T. Staley

J. L. Thompson

S. L. Schneider

From:

Lisha Romero

Re:

Wells listed under N0000/Unknown Operator on Fee and

State leases.

All wells previously listed under N0000/Unknown Operator on Fee and State leases, have been changed back to the last known operator, based on information obtained from the well files. Wells that are currently in Shut-In, OPS, or TA status have been assigned Entity numbers. Bond availability has been reviewed for wells on Fee land. Operator's with unplugged wells will now show up on the monthly turnaround report under the last known operator, except for those wells with TA or OPS status. However, due to the fact that the majority of these operators no longer exist, and the fact that the wells have been in unknown operator status for several years, the operator's addresses have been X'd out to prevent mailing of the monthly report.

My intentions are to follow-up with St. Lands/Ed Bonner on lease cancellations, assignments & bonding for wells drilled on State leases.

The Tax Commission will be notified of these changes, and asked to continue to hold off on any action until DOGM advises otherwise.

I hope this change assists in determining future action regarding the unplugged wells within the state. I have attached information for your review. Please advise me of any additional steps to take.

STATE LEASES

Crest Oil Corp./P0379 (ML-27798) *Well Stat/TA - No Monthly Report
Energy Resources Inc./P0799 (ML-26503 & *ML-35599/Lear Petroleum)
Grindstaff, E.C./P0384 (ML-27749)
International Research & Dev. Inc./P0798 (ML-15691 or ML-15651?)
Losey, Carl/P0390 (ML-39374 & *ML-3684/JCT, Inc.)
Main, W.S.L./P0800 (ML-41907)
Pixley, Kenneth/N7570 (ML-3162 & *ML-22574 or ML-22574A/Pixley ?)
Silengo, Charles L./N0900 (ML-27795) *Well Stat/OPS - No Mo. Report
United Technical Industries Inc./P0058 (ML-7567/*ML-39901/F. Adams)
Utah Oil Company/P0801 (ML-25424)
Utah Parks Petroleum Co./P0536 (ML-34169)

Vukasovich Drilling/N1050 (ML-42047)



355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut 84180-1203. ● (801-538-5340)

Page of	
---------	--



MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address	:				
PIXLEY, KENNETH XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Utah Account No. N7570 Report Period (Month/Year) 11 / 91 Amended Report				
***	<u> </u>		T		
Well Name	Producing		Production Volume	C. MCOT	Lat. A. (DDI)
API Number Entity Location ROZEL STATE #1	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)
4300315583 00316 08N 07W 8	BSLT				
ROZEL STATE #2					
4300315584 00316 08N 07W 8	BSLT				
ROZEL STATE #3 4300315585 00316 08N 07W 8	BSLT				
ROZEL STATE #4					
4300315586 00316 08N 07W 8	BSLT				
ROZEL STATE #5					
4300315587 00316 08N 07W 8	BSLT				
ROZEL STATE #11					
4300320029 00316 08N 07W 8	BSLT				
POZEL STATE #12				•	
©00320030 00316 08N 07W 8	BSLT				
ROZEL STATE #15 4300320031 00316 08N 07W 8	DCIT				
ROZEL POINT ST #16	BSLT				
4300320032 00316 08N 07W 8	BSLT			· ·	
ROZEL STATE #18	DOE	<u> </u>			
4300320033 00316 08N 07W 8	BSLT				
ROZEL STATE #24					
4300320035 00316 08N 07W 8	BSLT				
	*				
	8				
	7	OTAL		<u> </u>	
				•	
Comments (attach separate sheet if nece	ssary)				
				. , , , , , , , , , , , , , , , , , , ,	
					77.50.52.10.5.3
I have reviewed this report and certify the	information	to be	accurate and complete.	Date	
orized signature				Telephone	
Aggiorized Signature					

STATE/ACTIVE & PLUGGED WELLS BY COUNTY

BOX ELDER

N7570/Pixley, Kenneth 43-003-15583 - Sec. 8, T. 8N, R. 7W - Rozel State #1 - SOW TD 178'/Last Insp. 5-23-84 (ML-3162 & ML-22574 or ML-22574A) ML-22574 or ML-22574A/Terminated & Bond Released 1-2-85 Orig. operator P0009/Charles King to P0007/Union Petrochemical

- 43-003-15585 Sec. 8, T. 8N, R. 7W Rozel State #3 SOW TD 252'/Last Insp. 5-23-84
- 43-003-20029 Sec. 8, T. 8N, R. 7W Rozel State #11 SOW TD 252'/Last Insp. 5-23-84
- 43-003-20033 Sec. 8, T. 8N, R. 7W Rozel State #18 SOW TD 260'/Last Insp. 5-23-84
- 43-003-20035 Sec. 8, T. 8N, R. 7W Rozel State #24 SOW TD 260'/Last Insp. 5-23-84
- 43-003-20032 Sec. 8, T. 8N, R. 7W Rozel Point St #16 SOW TD 256'/Last Insp. 5-23-84
- 43-003-15584 Sec. 8, T. 8N, R. 7W Rozel State #2 SOW TD 251'/Last Insp. 5-23-84
- 43-003-15587 Sec. 8, T. 8N, R. 7W Rozel State #5 SOW TD 251'/Last Insp. 5-23-84
- 43-003-20030 Sec. 8, T. 8N, R. 7W Rozel State #12 SOW TD 226'/Last Insp. 5-23-84
- 43-003-20031 Sec. 8, T. 8N, R. 7W Rozel State #15 SOW TD 260'/Last Insp. 5-23-84
- 43-003-15586 Sec. 8, T. 8N, R. 7W Rozel State #4 SOW TD 251'/Last Insp. 5-23-84

GRAND

P0379/Crest Oil Corp.
43-019-30316 - Sec. 2, T. 21S, R. 23E - Crest 2-8 - TA/SGW ?
TD 1691'/Last Insp. 4-11-90 (ML-27798)
To N0020/Frank Adams, N1610/Thomas Harrison, N9675/Master Petro. ?



355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut 84180-1203. ● (801-538-5340)

1229.0

Page ____ of ____

MONTHLY OIL AND GAS PRODUCTION REPORT

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Operator na	me and address:		<u> </u>					
●PIXLEY, K DRAWER "O ALTUS ATTN: KEN	11	73521	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Utah Account No. N7570 Report Period (Month/Year) 8 / 86 Amended Report			
		, <u>.</u>						
Well-Name		Producing	-	Production Volume	T	14/(001)		
API Number Entity	Location	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)		
ROZEL STATE #1 +300315583 00316 0	98N 07W 8	BSLT						
ROZEL STATE #2 +300315584 00316 (8N 07W 8	BSLT				· · · · · · · · · · · · · · · · · · ·		
ROZEL STATE #3 +300315585 00316 ()8N 07W 8	BSLT						
ROZEL STATE #4 4300315586 00316 ()8N 07W 8	BSLT						
ROZEL STATE #5 4300315587 00316 (BSLT						
ROZEL STATE #11 4300320029 00316 (BSLT				·		
ROZEL STATE #12 4300320030 00316 (BSLT						
ROZEL STATE #15 4300320031 00316 (BSLT						
ROZEL POINT ST #1: 4300320032 00316 (5	BSLT						
ROZEL STATE #18 4300320033 00316		BSLT						
ROZEL STATE #24		BSLT						
4300320035 00316	UON U/W U	BSLI						
			OTAL					
Comments (attach separa	ate sheet if nece	essary) ——		2-y				
				,				
I have reviewed this repo	ort and certify the	information	to be	accurate and complete	. Date			
					Telephone			
Authorized signature						,		

ALJENED

AUG 04 1986

MAS & MINING

Kenneth Pixley Drawer O Altus, Okla. 73522 July 30, 1986

STATE OF Utah Natural Resources Oil, Gas, & Mining 355 W. North Temple 3 Triad Center Suite 350 Salt Lake City, Ut. 84180-1203

ATTENTION: R. J. FIRTH

Dear Mr. Firth:

Please refer to your 7/28/86 letter pertaining to the Monthly Oil & Gas Production & Disposition Reports.

I know longer have any oil leases; Lease was cancelled 1/2/85.

I am not behind in my reports. Have not been behind in my reports.

I have no delinquent reports.

Please look into this matter.

Yours truly,

12-11

Marm - can suc

Mes of 1/2-15-86

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut 84180-1203. (801-538-5340)

Operator name and address:

Page 1 of 1

MONTHLY OIL AND GAS PRODUCTION REPORT

;	STATE	1	ALUS		N7.57	0 4/222
PIXLEY, KENNETH DRAWER "O" ALTUS OK ATTN: KENNETH PIXLEY	73521				Utah Account No. N757 Report Period (Month/Year) Amended Report	:
	1		I	Maliana a	•	
Well Name	Producing	•	Production Oil (BBL)	Volume	· · · · · · · · · · · · · · · · · · ·	(-7L)
API Number Entity Location ROZEL STATE #1	Zone	Oper	101110001			
4300315583 00316 08N 07W 8	BSLT		P	3/4/6	LANDS TEAMINATE	2/ .
ROZEL STATE #2				THE LE	EASE AND RELEASE	0 20
4300315584 00316 08N 07W 8	BSLT		~	THE P	LUBGING ROND	INAPTEZI
ROZEL STATE #3	DC. T		m	WITHOU	UT CLEARING WIT	THE WATED
4300315585 00316 08N 07W 8	BSLT		1111			111-1621
ROZEL STATE #5 4300315587 00316 08N 07W 8	BSLT			012,61	95, & MINING.	
ROZEL STATE #11	D3E1		<u> </u>		VSIBILITY FOR	
4300320029 00316 08N 07W 8	BSLT			Alien	visitely store) BELGISE.
ROZEL STATE #12					IVG AND REPORTIVUE	
4300320030 00316 08N 07W 8	BSLT			NEVEN	PTS TO STATE LANG	0S
ROZEL STATE #15					2.4	
4300320031 00316 08N 07W 8	BSLT				Morn	
ROZEL POINT ST #16	DCI T				1-13-26	
4300320032 00316 08N 07W 8	BSLT				1-13-26	
ROZEL STATE #18 4300320033 00316 08N 07W 8	BSLT			7		
MC22574-A			de	etive 1	1-1-85	·
MC 22574-A			00			
					•	
	1	L			· Gagaro	
	Т	OTAL	L			
Comments (attach separate sheet if nece	essarv)		v			
Comments tattach separate sheet is not	,,,	/	,	11 -		/
Cho operator	s on	<u>al</u> n	Me Le	1/2 0	Male dano	2
Januar M	mohen	<u>/</u>			tate Land	
I have reviewed this report and certify the	e information	to be	accurate an	d complete.	Date	
No. of the contract of the con						
					Telephone	· · · · · · · · · · · · · · · · · · ·
Authorized signature					-	

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS AND MINING

SUT	"IN TRIPLICATE*	
ŧ.	7r instructions on	
	reverse side)	

The following wells have been taken over by KENNETH PIXLEY as of December 1, 1983. API # 43-003-15583 8N 7W SEC. 8 ROZEL STATE#1 API # 43-003-15585 #2 API # 43-003-15585 #5 API # 43-003-20029 #11 API # 43-003-20030 #12 API # 43-003-20032 #16 API # 43-003-20032 #16 API # 43-003-20033 #18 18. I hereby certify that the foregoing is true and correct SIGNED API # 43-003-2003 #18 TITLE PLACE DATE 4-5-84 APPROVED BY DATE		DIVISION OF OIL, GAS, AND MINING				5. LEASE DESIGNATION A SL 22574-A	5. LEASE DESIGNATION AND SERIAL NO. SL 22574-A		
OTT. D. SAME OF CONTROL 2. RAMAS OF COPERATION RENDETH PIXEY 5. ADDRESS OF COPERATION RENDETH PIXEY 5. ADDRESS OF COPERATION RENDETH PIXEY 6. PARK OF LABOR ROZED POINT 8. WELL NO. 10. FIRED AND FOOL, OR WILDCAY AT SUPERATION OF WELL (Righest location clearly and in accordance with any State requirements.* 11. SECURIT OF LABOR 12. COURT OR PARKER IS NOT NO SEC 8 13. OF LABOR SEC 9. 14. PERMIT NO. 15. SUBMIT OF LABOR SEC 9. 16. Check Appropriate Box To Indicate Notice of Notice, Report, or Other Data NOTICE OF PIXEL SECURITY SEC. 17. COURT OF PARKER IS NOT OR ALTRES CASING MULTIPLE COMPLETE SECURITY CASES OF PARKER IS NOT OR ALTRES IS NOT OR ALTRES SECURITY SECURITY CASES OF PARKER IS NOT OR ALTRES OF PARKER IS NOT OR ALTRE		SUNDRY NOTI	CES AND REP	ORTS Con or plug b	ON WELLS ack to a different reservoir. opossis.)	6. IF INDIAN, ALLOTTES	OR TRIBE NAME		
**************************************	i.					7. UNIT AGREEMENT NAM			
DRAMER OF OPPLACES DRAMER OF OPPLACES DRAMER OF ALTOS OK 73521 4. IOCATION OF WILL (Report location clearly and in accordance with any State requirements.* 10. PIBLO AND FOOL, OR WILLCAY See also made 17 below.) 11. BLAVATIONS (Show whether of, M., ch. ch.) 12. CODPT OR FABRISH IS. FYET SHOWING OF MALES IN THE STATE OF T	2.	NAME OF OPERATOR				8. FARM OR LEASE NAME			
DRAWER "O" ALTUS OK 73521 ** LOCATION OF WILL (Report location density and in accordance with any State requirements.* ** LITTLE AND COLOR, OR WILLOUT ** LITTLE A	_					Rozel Point			
Security of well (Report location clearly and in accordance with any State requirements." 11. SEC. 2. 2. 2. 2. 3. 3. 3. 3. 3. 5. 3. 4. 11. 11. 11. 11. 11. 11. 11. 11. 11.	3.	•		_		9. WELL NO.			
11. SEC. T. E. W. OF REE. AND STATE SHOWS (Show whether Dr. RT. OA. ofc.) 12. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data SOUTH OF PARKER 18. STATE NOTICE OF INTERFORM (Show whether Dr. RT. OA. ofc.) 14. PERMIT NO. 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data SOUTHOUT REALER 18. STATE NOTICE OF INTERFORM TO THE STROKE OF INTERFORM THE SHOOT OF CHIEF ADAMSON MEET! 17. DESCRIBED PROVINCES ON CONTINUE OF INTERFORM TO THE STROKE OF THE STR	4.				State secularian	10			
18. Check Appropriate Box To Indicate Notice, Report, or Other Data NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PRACTURE THAT SHOOT OR ACCIDED BANDON' 17. DESCRIBE PROMPERED OPERATIONS (Clearly state all pertinent defalls. and give pertinent dates. Inciding estimated date of stating ones pertinent of the work.) The following wells have been taken over by KENNETH PIXLEY as of December 1, 1983. API # 43-003-15583 API # 43-003-15585 API # 43-003-20030 API #		pee grao abace 11 perow.)		c with any	Searce requirements.	10. FIELD AND POOL, OR	WILDCAT		
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Notice of Interpreta to: State of Interpreta to: THEY WATER SEUT-OFF FOLL OR ALTER CASING NOTICE OF INTERPRETA TO: THEY WATER SEUT-OFF FOLL OR ALTER CASING NATURE THAT HER ALTERING CASING ASSOCIATION OF MULTIPLE COMPLETE CONTROL OF THE CONTROL OF THE CONTROL OF THE CASING AND ALTERING CASING ASSOCIATION OF A CONTROL OF THE CASING AND ALTERING CASING ASSOCIATION OF A CONTROL OF THE CASING AND ALTERING CASING		·				11. SEC., T., R., M., OR SLI SURVEY OR AREA	E. AND		
Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: THE WATER SEUT-OFF PRACTURE TREAT SHOOT OR ACTRICE ARANDON* AR						8N 7W	SEC 8		
THE WATER APPROPRIATE BOX TO Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT EXPORT OF: TEST WATER ABUT-OFF PRACTURE TREAT MULTIPLE COMPLETE ABANDON* ARANDOM-BUT APPROPRIATE OF ARANDOM HOLTIPLE COMPLETE ABANDOM ARANDOM ARAN	14.	PERMIT NO.	15. SLEVATIONS (Show	whether DF.	RT. GR. etc.)	12. COUNTY OR PARISH	18. STATE		
THE WATER ABUT-OFF PULL OR ALTER CASING WATER SHUT-OFF REPARRING WELL SHOOT OR ACTORE THEAT WELL CHANGE PLANS CHANGE PLANS SHOOT OR ACTORE THEAT WELL CHANGE PLANS SHOOT OR ACTORE THE PLANS SHOOT OR ACTORE THE PLANS SHOOT OR ACTORE THE PLANS SHOOT OF PERFORMENT OF THE PLANS SHOOT OF PERFORMENT OR COMMITTEE DUPLATED SHOOT OR CHANGE PLANS SHOOT SHOOT OF PERFORMENT OF THE SHOOT OF THE PLANS SH			<u> </u>			Box Elder	Utah		
THET WATER SHUT-OFF FRACTURE THEAT SHOOT OR ACHIEFE SHOOT OR COMPLETED DYNATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any nent to this work.)* The following wells have been taken over by KENNETH PIXLEY as of December 1, 1983. API # 43-003-15583 API # 43-003-15585 API # 43-003-15587 API # 43-003-20029 #11 API # 43-003-20029 #12 API # 43-003-20030 API # 43-003-20030 API # 43-003-20032 #16 API # 43-003-20032 #17 API # 43-003-20032 #18 B. I bereby certify that the foregoing is true and correct SIGNED FAMALY TITLE FAMALY TITLE FAMALY TITLE FAMALY TO SECRET FEDERATION CONTRIBUTE AND SERVICE AND SERVI	16.	Check Api	propriate Box To In	ndicate N	ature of Notice, Report, o	r Other Data			
The following wells have been taken over by KENNETH PIXLEY as of December 1, 1983. API # 43-003-15583 8N 7W SEC. 8 ROZEL STATE#1 API # 43-003-20030 API # 43-003-20		NOTICE OF INTENT	TON TO:		SUBS	SEQUENT REPORT OF:			
SHOOT OR ACIDIZE ABANDON* AREPAIR WELL CHANGE PLANS CHANGE PLANS (Other) 17. DESCRIEGE PROPOSED OR COMPLETED OPERATIONS (Clearly state all) pertinent details, and give pertinets, including estimated date of starting any nent to this work. The following wells have been taken over by KENNETH PIXLEY as of December 1, 1983. API # 43-003-15583 API # 43-003-15585 API # 43-003-15585 API # 43-003-20039 API # 43-003-20030 API # 43-003-20030 API # 43-003-20032 API # 43-003-20032 API # 43-003-20032 API # 43-003-20033 API # 43-003-20035 API # 43-003-200		TEST WATER SHUT-OFF	ULL OR ALTER CASING		WATER SHUT-OFF	REPAIRING WE	LL		
The following wells have been taken over by KENNETH PIXLEY as of December 1, 1985. API # 43-003-15583 8N 7W SEC. 8 ROZEL STATE#1 API # 43-003-15585 #3 API # 43-003-15587 API # 43-003-20030 API # 43-003-20030 API # 43-003-20030 API # 43-003-20032 API # 43-003-20032 API # 43-003-20032 API # 43-003-20032 API # 43-003-20033 API # 43-003-20033 API # 43-003-20033 API # 43-003-20035 API # 43-003		FRACTURE TREAT M	ULTIPLE COMPLETE		FRACTURE TREATMENT	ALTERING CASI	ING		
(Other) (Ot		SHOOT OR ACIDIZE	BANDON*				<u> </u>		
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including, estimated date of starting any proposed work.) The following wells have been taken over by KENNETH PIXLEY as of December 1, 1983. API # 43-003-15583 8N 7W SEC. 8 ROZEL STATE#1 API # 43-003-15585 #3 API # 43-003-15585 #5 API # 43-003-20030 #12 API # 43-003-20030 #12 API # 43-003-20031 #15 API # 43-003-20032 #16 API # 43-003-20032 #16 API # 43-003-20033 #18 18. I hereby certify that the foregoing is true and correct SIGNED FAMILY AND TITLE PLAN. DATE 4-5-84 (This space for Federal or State office use)			HANGE PLANS						
The following wells have been taken over by KENNETH PIXLEY as of December 1, 1983. API # 43-003-15583 8N 7W SEC. 8 ROZEL STATE#1 API # 43-003-15584 #2 API # 43-003-15587 #5 API # 43-003-20039 #11 API # 43-003-20030 #12 API # 43-003-20032 #15 API # 43-003-20032 #16 API # 43-003-20033 #16 API # 43-003-20033 #18 18. I hereby certify that the foregoing is true and correct SIGNED FACTOR API TITLE Property Date office use) APPROVED BY DATE 4-5-84	17	-	Agrong (Cloudy state	11	Completion or Reco	mpletion Report and Log form.	.)		
API # 43-003-15583 8N 7W SEC. 8 ROZEL STATE#1 API # 43-003-15584 API # 43-003-15585 API # 43-003-20029 #11 API # 43-003-20030 #12 API # 43-003-20031 #15 API # 43-003-20032 #16 API # 43-003-20033 #18 18. I hereby certify that the foregoing is true and correct SIGNED FAMILY API TITLE PLES. DATE 4-5-84 TITLE PLES. DATE 4-5-84 TITLE PLES. DATE 4-5-84		neme as and worth,							
API # 43-003-15584 API # 48-003-15585 API # 43-003-20029 API # 43-003-20030 API # 43-003-20031 API # 43-003-20032 API # 43-003-20032 API # 43-003-20032 API # 43-003-20033 #18 18. I hereby certify that the foregoing is true and correct SIGNED API # 43-003-20034 TITLE Pres, DATE 4-5-84 DATE PAGE DATE DATE		The following wells h	nave been taker	n over 1	by KENNETH PIXLEY as	s of December 1, 1	1983.		
API # 43-003-15584 API # 48-003-15585 API # 43-003-20029 API # 43-003-20030 API # 43-003-20031 API # 43-003-20032 API # 43-003-20032 API # 43-003-20033 BIS. I hereby certify that the foregoing is true and correct SIGNED API		API # 43-003-15583	8N 7W SI	EC. 8	ROZEL STATE#1	1			
API # 43-003-15587 API # 43-003-20029 API # 43-003-20030 API # 43-003-20031 API # 43-003-20032 API # 43-003-20032 API # 43-003-20033 # 15 API # 43-003-20033 # 18 IB. I hereby certify that the foregoing is true and correct SIGNED FAMEL AND TITLE Press, (This space for Federal or State office use) APPROVED BY TITLE DATE DATE DATE		API # 43-003-15584			#2	2			
API # 43-003-20029 #11 API # 43-003-20030 #12 API # 43-003-20031 #15 API # 43-003-20032 #16 API # 43-003-20033 #18 BIV. OF OIL, GAS & MINING 18. I hereby certify that the foregoing is true and correct SIGNED function for Federal or State office use) APPROVED BY TITLE DATE 4-5-84 TITLE DATE DATE DATE		API # 45-003-1 5585				-			
API # 43-003-20030 #12 API # 43-003-20031 #15 API # 43-003-20032 #16 API # 43-003-20033 #18 IB. I hereby certify that the foregoing is true and correct SIGNED FAMILY AND TITLE FIRST, DATE 4-6-84 (This space for Federal or State office use)									
API # 43-003 20031 API # 43-003-20032 API # 43-003-20033 #16 #18 APR - 5 688 DIV. OF OIL GAS & MINING 18. I hereby certify that the foregoing is true and correct SIGNED FINAL APR - 84 (This space for Federal or State office use) APPROVED BY TITLE DATE DATE									
API # 43-003-20032 API # 43-003-20033 #16 #18 APR - 5 999 DIV. OF OIL, GAS & MINING 18. I hereby certify that the foregoing is true and correct SIGNED function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the foregoing is true and correct TITLE function for the fun									
API # 43-003-20033 #18 DIV. OF OIL, GAS & MINING 18. I hereby certify that the foregoing is true and correct SIGNED FAMILY TITLE Pres, (This space for Federal or State office use) APPROVED BY DATE									
APR - 5.1986 DIV. OF OIL, GAS & MINING 18. I hereby certify that the foregoing is true and correct SIGNED FULL STATE (This space for Federal or State office use) APPROVED BY TITLE DATE									
18. I hereby certify that the foregoing is true and correct SIGNED SMALL SMALL TITLE Pres, (This space for Federal or State office use) APPROVED BY DATE									
SIGNED STATE STATE DATE 4-5-84 (This space for Federal or State office use) APPROVED BY TITLE DATE			2011	. U. U.L., U	and a minerisa	¥			
SIGNED STATE STATE DATE 4-5-84 (This space for Federal or State office use) APPROVED BY TITLE DATE		_				· ·			
(This space for Federal or State office use) APPROVED BY	18.	I hereby certify that the foregoing is	true and correct						
APPROVED BY TITLE DATE		SIGNED FUNCTION SINCE	<u> </u>	tle <i>Pic</i>	,	DATE 4-5-	- 84		
APPROVED BY DATE	===	(This space for Federal or State office	e use)						
CGNDII. WS OF APPROVAL, IF ANY:		APPROVED BY CONDILL MS OF APPROVAL, IF AR	TI:	TLE		DATE			

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUL GAS AND MINING

SUB(N TRIPLICATE* (C..., instructions on reverse side)

	ON OF ON ONE AND AND		
ואוט	ON OF OIL, GAS, AND MIN	NING	5. LEASE DESIGNATION AND SERIAL NO.
			mr 22574-A
SUNDRY NOT	ICES AND REPORTS C	ON WELLS	6. IF INDIAN, ALLOTTER OR TRIBE NAME
(Do not use this form for propos Use "APPLICA	sals to drill or to deepen or plug be ATION FOR PERMIT—" for such pr	ack to a different reservoir.	
1.			7. UNIT AGREEMENT NAME
OIL UAS OTHER			
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
KENNETH PIXIE	i.		Rozel State
3. ADDRESS OF OPERATOR			9. WELL NO.
300 Pasco Deu	ida Altus, OK	(1a 73521	/
4. LOCATION OF WELL (Report location ci See also space 17 below.)	early and in accordance with any	State requirements.*	10. FIELD AND POOL, OR WILDCAT
At surface			
			11. SEC., T., R., M., OR BLK. AND SURVEY OR ARRA
14. PERMIT NO.	15. ELEVATIONS (Show whether DF,		Sec. 8 TEN RTW
	11202	RI, UR, EUS.)	12. COUNTY OR PARISH 18. STATE
• •	403		1Box Elder Lutah
16. Check Ap.	propriate Box To Indicate No	ature of Notice, Report, or C	Other Data
NOTICE OF INTENT	FION TO:	SUBSEQ	UENT ESPORT OF:
TEST WATER SHUT-OFF	ULL OB ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
	CULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	BANDON®	SHOUTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL C	HANGE PLANS	(Other) Changing	
(Other)		Completion or Recomp	of multiple completion on Well letion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPER proposed work. If well is direction	tations (Clearly state all pertinent	d a . 11 1 1 1 1 1	including estimated date of starting any al depths for all markers and zones perti-
Changed head	1 & Reworked		2 1982 On of
18. I hereby certify that the foregoing is signed Bolson Woold		notoru	DATE 12-9-81
			DAIB CO. I. VI
(This space for Federal or State office	s une)		
APPROVED BY COMBILL VS OF APPROVAL, IF AN	NY:		DATE

DIRECTOR DIRECTOR DIRECTOR DETROLEUM ENGINEER DIRECTOR DI

December 23, 1975

MEMO FOR FILNNG

Re: Union Petrochemical of

Nevada

State ML-22574

Sec. 8, T. 8 N., R. 7 W. Box Elder County, Utah

An inspection of the operations being conducted in this area was made on December 16, 1975, by Mr. Jim Carter, Mr. P.L. Driscoll, Division of Oil, Gas, and Mining; Mr. Douglas Stewart, Division of the Great Salt Lake, and Mr. Kenneth Pixley, the owner of K.P. Construction Company, the owner of this lease.

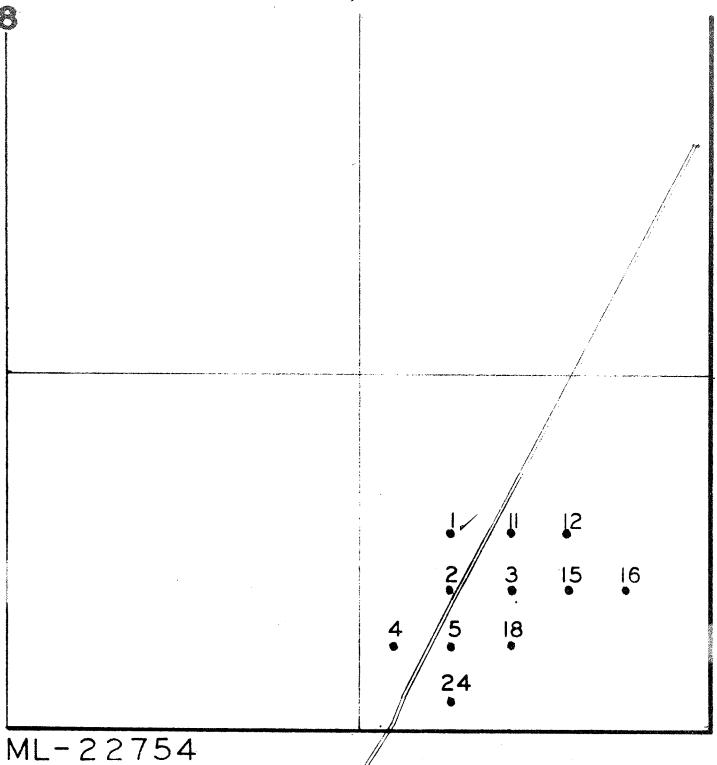
The meeting was quite meaningful and successful in acquainting K.P. Construction Co. with the problems to be encountered in this area; and of K.P. Construction Company's assurance that this situation will be immediately rectified.

PATRICK L. DRISCOLL CHIEF PETROLEUM ENGINEER

PLD:tb

cc: U. S. GEOLOGICAL SURVEY

CHARLES E GG ROZEL FIELD BOX ELDER COUNTY, UTAH



1c pm

NE COR. OF THE SE14, SEC B, TBN, 7 R7W, S.L.M. ogGuer Oil State Rozell No1.

SURVEYOR'S CERTIFICATE

I, Robert G. Pinkerton, hereby certify that I am a Registered Professional Engineer, and that I hold License No. 2519 as prescribed by the laws of the State of Utah, and I have made a survey to the following point:

Being located South 1914 feet and West 983 feet from the N.E. corner of the S.E. 1/4 of Section 8, T8N, R7W, S.L.B.& M.

I further certify that the above plat correctly shows the dimensions of the point located.

Registered Professional Engineer License No. 2519

July 16, 1964

Date

ALE MONEY OF DE THE 10 5643

H B

May 11, 1965

Re: Oil and Gas drilling bond Oil and Gas Lease No. ML22574

Mr. Charles E. King Box 535 Wichita Falls, Texas

Dear Mr. King:

Enclosed please find the drilling bond which you submitted to this office on May 8, 1965. This is being returned to you since it cannot be accepted as a bond covering operations under a State of Utah oil and gas lease. This bond form is one used by the Oil and Gas Conservation Commission for drilling on private lands.

I am enclosing a supply of bond forms acceptable to this office and I have filled one form out in the manner in which it should be filed. I have also included a copy of our rules and regulations for your use. Tule 14 outlines the bond requirements of this office.

You should also note that since you are not the lessee under the lease on which you will be operating it will be necessary for both you and Mr. Reginald to appear as principals on this bond.

Please submit this bond prior to the commencement of operations upon the leased lands.

Very tru by yours,

DONALD G. PRINCE ECONOMIC GEOGRAPHER

DGP:1r Encl.

CC: Utah Oil and Gas Conservation Commission 348 E South Temple Salt Lake City, Utah

Mr. Harry Reginald 4340 Woodman Ave. Sherman Oaks, California

X

June 29, 1967

MEMO FOR COMMISSIONERS

Re: Rozel Point Field Charles E. King & Associates Box Elder County, Utah

On June 26, 1967, the above named field was visited.

A check was made to the above named field to observe the progress that the operator was making in developing this reservoir on one-acre spacing in accordance with Cause No. 120-1. The following wells have been completed and have pumping equipment installed: Well No. 1, 2, 3, 4, 5, 11, 15, and 18. Four of these wells were on pump and producing an undetermined amount of oil. All of the storage tanks and steam generators were in operation and overall conditions appeared satisfactory. It should be noted that they had just spudded the No. 24 location and were drilling at a depth of 42°. The Company will be contacted and advised to keep the Commission informed on their drilling progress and production rates.

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:kh

CC: Rodney A. Smith, District Engineer U. S. Geological Survey 8416 Federal Building Salt Lake City, Utah

One copy filed in latest completed well file.

X

STATE OF UTAH

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

5.	LEASE	DESIGNATION	AND	SERIAL	NO.

OIL & GAS CONSERVATION COMMISSION

	012 & 0.		1111011 0011	1111 001 011				3162
WELL CO	MPLETION	OR RECO	MPLETION F	REPORT A	ND LOG	6. IF IND	IAN, ALLO	TTEE OR TRIBE NAM
1a. TYPE OF WEL	L: OII	GAS WELL	DRY	Other		7. UNIT A	AGREEMENT	r NAME
b. TYPE OF COM				other				
NEW WELL V	WORK DE	EEP- PLUG BACK	DIFF. RESVR.	Other		S. FARM	OR LEASE	NAME
2. NAME OF OPERAT	or					Ro:	zel	
Ch	arles E.	. King				9. WELL	NO.	
3. ADDRESS OF OPER	ATOR					1		
			nita Falls				_	L, OR WILDCAT
4. LOCATION OF WEL	L (Report locat	ion clearly and in	accordance with any	y State requirem	ients)*		zel	
At surface						OR AI	REA	OR BLOCK AND SURVE
At top prod. into	erval reported b	elow				1		R 7W
At total depth						Box	Llder	County, U
•			14. PERMIT NO.	DA	TE ISSUED	12. COUNT		13. STATE
15. DATE SPUDDED	16 DATE T.D.	BEACHED 17. DAT	FE COMPL. (Ready to	0 prod.) 10 E	Y DY AMIONS (DI	r, RKB, RT, GR, ETC.	+ 19.	ELEV. CASINGHEAD
7/2/64	7/12/	/64	7/13/64		4202	_		1203'
20. TOTAL DEPTH, MD .	% TVD 21. PL	UG, BACK T.D., MD &	TVD 22. IF MUL- HOW M	TIPLE COMPL., ANY*	23. INTE	RVALS ROTARY LED BY 0-177		CABLE TOOLS
24. PRODUCING INTER	VAL(S). OF THE	S COMPLETION—TO	P. BOTTOM, NAME (M	AD AND TVD)*		→ 0-1//		5. WAS DIRECTIONAL
			,, (•			ļ	SURVEY MADE
153'	- 177. 5	' Mair	n Tertiary	basalt				
26. TYPE ELECTRIC A	ND OTHER LOGS	RUN					27. W	AS WELL CORED
	N c	one						V 0
28.			ING RECORD (Rep			THE PROPE		
CASING SIZE	WEIGHT, LB			LE SIZE		ENTING RECORD		AMOUNT PULLED
13 3/8"	48_	153	3' 1	7 1/8"	Cemt. w	//100_sack	S	
29.		LINER RECORI)	<u>'-</u>	30.	TUBING R	ECORD	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET	(MD)	PACKER SET (MD)
none		_			none	<u> </u>		
31. PERFORATION REC	ORD (Interval,	size and number)				FRACTURE, CEM		
				DEPTH INTER	RVAL (MD)	AMOUNT AND	KIND OF	MATERIAL USED
		_		none_		none		
None	; open h	nole						
33.*			PROT	DUCTION				
DATE FIRST PRODUCT	ION PRO	DUCTION METHOD (Flowing, gas lift, pr		d type of pum	(p) WI	LL STATU	s (Producing or
none							shut-in)	shut-in
DATE OF TEST	HOURS TESTE	CHOKE SIZE		OIL-BBL.	GAS-MC	F. WATER-		GAS-OIL RATIO
			TEST PERIOD				-	
FLOW. TUBING PRESS.	CASING PRESS	URE CALCULATED 24-HOUR RA		GAS-MC	CF.	WATER-BBL.	OIL G	RAVITY-API (CORR.)
34. DISPOSITION OF G	as (Sold, used f	or fuel, vented, etc.)			TEST WIT	NESSED B	Y
35. LIST OF ATTACH	MENTS					I	n-1	
G <u>eol</u> o	gj₂ca√\$a	ample Des	cription					
36. I hereby certify				lete and correct	as determine	d from all availab		
- 6/	11/11	1. 65%				•		141110

*(See Instructions and Spaces for Additional Data on Reverse Side)

୍ଦ 7ر ಂತಿ O 10 013 017 055 026 027 028 029 O 32 O30 O.31 033 O³⁴ O 35



CHARLES E. KING

P. O. Box 535
WICHITA FALLS, TEXAS

April 28, 1965

Mr. Cleon B. Feight
Executive Director
Oil & Gas Conservation Commission
348 East South Temple Suite 301
Salt Lake City, Utah 84111

Dear Mr. Feight:

In regard to your letter of April 27, it seems that there has certainly been some missent information as all of the things you stated were certainly filed with your office. However, it is my understanding that the surveyor's plat was sent by the surveyor for Boyles Brothers Drilling Company. 487-7595

I know when I was in Salt Lake on the 15th of April, I picked up a certified copy of the survey from Mr. Brennan. I will write him now and request that he send another copy to you.

Also, we did get a bond and to my knowledge, it was filed with the proper office. When I was in Salt Lake on the 15th, I gave this bond to Mr. Fredrick S. Prince, Jr., Attorney for 328-4949 him to check on it and what would be needed to drill the other wells that we are going to file for. Please contact him and he will be able to verify this.

As for the Designation of Agent, Mr. Prince can serve in this capacity.

I am sorry for this mixup and certainly hope this will take care of the situation.

Sincerety yours,

Charles E. King

CEK/dlc

cc: Donald G. Prince

11.

K JUB

April 28, 1965

Mr. J. F. Brennan Field Supt., Drilling Division Boyles Brothers Drilling Company P. O. Box 58 Salt Lake City 10, Utah

Dear Mr. Brennan:

It seems that the Oil & Gas Conservation Commission never received a surveyor's plat on the well we drilled last July at Point Rozel. I would certainly appreciate your sending a certified copy, such as the one you gave me when I was in Salt Lake, to Mr. Cleon B. Feight, Executive Director, Oil & Gas Conservation Commission, 348 East South Temple, Suite 301, Salt Lake City, Utah.

I had to make a hurried trip to New York, leaving only one day after returning from Salt Lake and I just returned today.

We will have everything ready to go and will be in touch with you the first of next week in regard to starting the four well drilling program.

Again, let me thank you for your many courtesies extended to me when I was in Salt Lake and also for the lunch.

Sincerely yours,

Charles E. King

CEK/dlc

cc: Cleon B. Feight

3 144

April 27, 1965

Mr. Charles E. King P. O. Box 535 Wichita Falls, Texas

Re: Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

Dear Mr. King:

Reference is made to our letter dated June 26, 1964, in which we granted approval to drill the above mentioned well. However, this approval was conditional upon a surveyor's plat and a Designation of Agent being filed with this office. As of this date we still have not received said information.

We also note that you have not filed a bond covering this well with the State Land Board. Failure to furnish a surveyor's plat, Designation of Agent and a bond could result in your lease being terminated. I would suggest that you take <u>immediate</u> action to rectify the situation.

Very truly yours.

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT EXECUTIVE DIRECTOR

CBF:kgw

cc: Donald G. Prince
State Land Board
Salt Lake City, Utah

April 1, 1965

Mr. Charles E. King P. O. Box 535 Wichita Falls, Texas

Re: Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

Dear Mr. King:

Thank you for your letter of March 24, 1965.

Consider this letter as formal approval to perform the work as described in your correspondence, on the above mentioned well. Enclosed please find Form OGCC-lb, "Sundry Notices and Reports on Wells," which is to be filed, in duplicate, as soon as the operations are completed.

Thank you for your assistance in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:kgw

Enclosed - Forms

14

CMB

CHARLES E. KING

P. O. Box 535 WICHITA FALLS, TEXAS

March 24, 1965

Mr. Paul W. Burchell Chief Petroleum Engineer Oil & Gas Conservation Commission 310 Newhouse Building 10 Exchange Place Salt Lake City, Utah 84111

Dear Mr. Burchell:

After talking with you yesterday, I contacted a friend of mine in Salt Lake who put me in touch with the firm of Mulliner, Prince and Mangum to represent us in making the application that you advised.

I talked to Mr. Seaton Prince this morning and any help or advice you could give in making this application will certainly be appreciated. I appreciate also, your kind considerations in this and other matters.

You also advised that I should notify you in regard to the work done on the Rozel State #1. Our plan at the present time is to take a small heater on the location which will supply sufficient hot water under pressure to give us bottom hole heat that will be sufficient to raise the temperature of the oil to a point that will be fluid enough to be handled by a regular oil field insert pump. Our plan then is to recomplete the well with regular 2" tubing on which we are putting a sleeved heat exchanger at the bottom, then circulate the hot water through this unit.

We feel we will be successful in being able to produce with this method. As you can see, with this method, we will be able to drill a small hole and complete with normal oil field procedures.

Please advise if this is all the notice necessary and if any additional information or special forms are to be submitted, please advise.

Sincerely yours,

Midulis & Jung Charles E. King

CEK/dlc

January 4, 1965

MEMO TO THE COMMISSIONERS:

Re: CHARLES E. KING
Rozel State #1
Sec. 8, T. 8 N., R. 7 W.
Box Elder County, Utah

On January 2, 1965, I was met at the locked gate by Messrs. Gene Dalton, Farrell Peterson, and Harry Reginald. Mr. Reginald is the actual operator and lease owner. We proceeded to the well site whereupon a test was made to see if the well could produce. Once the chain-driven apparatus started working, it was observed that the viscous crude or "utanol" could be brought to the surface. However, its daily rate of production cannot truly be determined until a continuous 24-hour test can be made. A visit was made to nearby old abandoned well locations and it was apparent that these leases could and have been produced by applying the same principle.

It was definitely established that this well was producing prior to midnight, December 31, 1964, since 5 barrels of this oil could be seen near the well site. Pictures of the operations were made for posterity. Also, I reviewed correspondence from major oil companies which indicated that they had received samples of this oil in the latter part of 1964. Mr. Reginald was advised to report to the Commission both past and future production figures.

Overall operations were considered satisfactory and the unique method by which this crude is being produced can be considered noteworthy.

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:pcp

cc: Mr. Max Gardner
State Land Board
105 State Capitol Bldg.
Salt Lake City, Utah

Mr. Harvey L. Coonts, Pet. Engr. Box 266 Moab, Utah

-8

X

8

January 4, 1965

MEMO TO THE COMMISSIONERS:

Re: CHARLES E. KING
Rozel State #1
Sec. 8, T. 8 N., R. 7 W.
BoxElder County, Utah

On the afternoon of December 31, 1964, an attempt was made to check the status of the above named well. Access to the area could not be gained due to the road being blocked with a cable wire. The cable was held in place with a lock that needed a key to open it. A "No Trespassing" sign was nearby which was by the order of Wallace Hunsaker (Honeyville). A picture was taken of the barricade.

Upon reaching Brigham City, I called Mr. Hunsaker; however, no one answered the phone. Since the location is about 42 miles from Brigham City and it was getting dark, the trip was curtailed. Contack will be made with the operators to have the gate opened.

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:pcp

cc: Mr. Max Gardner
State Land Board
105 State Capitol Bldg.
Salt Lake City, Utah

Mr. Harvey L. Coonts, Pet. Engr. Box 266 Moab, Utah

PMA

David H. James Consulting Petroleum Engineer 2119 First National Bank Building Denver 2, Colorado

Re: Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

Gentlemen:

We are in receipt of your well log for the above mentioned well. However, upon checking this information, we notice that you did not report the water sands encountered while drilling.

Please complete the enclosed Forms OGCC-8-X, and return to this office as soon as possible.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK RECORDS CLERK

cnp

Enclosure

CHARLES E. KING

P. O. BOX 535

WICHITA FALLS, TEXAS

November 2, 1964

Utah Oil & Gas Conservation Commission 348 South Temple, Suite 301 Salt Lake City, Utah

> Well No. Rozel State #1 Sec. 8, T. 8 S., R. 7 W., Box Elder County, Utah

Dear Sir:

I feel ashamed to write this letter, but after looking through my file on the well, I found the original well completion report which I had failed to send in. I have received all the information from my geologist in Denver and for some reason it was misplaced and not sent in.

Enclosed are two copies of the completion report and another report from Mr. Dave James which will give you any other needed information.

As for the monthly report, the well has been shutin since completion and due to certain production problems, we have not been able to make any test as yet. We are hoping to do so within the next three weeks and the report will be sent to you of the results.

Singerely yours,

Charles E. King

CEK/dlc

Encs. 3

October 28, 1964

Charles E. King P. O. Box 535 Wichita Falls, Texas

Re: Well No. Rozel State #1
Sec. 8, T. 8 S., R. 7 W.,
Box Elder County, Utah

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months of July, August and September, 1964, for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Forms OGCC-1b, (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER RECORDS CLERK

kgw

Enclosure - Forms



September 23, 1964

Charles E. King
P. O. Box 535
Wichita Falls, Texas

Re: Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

Dear Mr. King:

Our records indicate that you have not filed a Monthly Report of Operations for the months of July, and August, 1964, for the subject well. Rule C-22 (1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission require that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1b, (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER RECORDS CLERK

KGW:ns

Enclosure - Forms

J.

August 28, 1964

Charles E. King P. O. Box 535 Wichita Falls, Texas

> Re: Well No. Rozel State #1 Sec. 8, T. 8 N., R. 7 W., Box Elder County, Utah

Dear Mr. King:

Our records indicate that you have not filed a Monthly Report of Operations for the month of July, 1964, for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCE-1b, (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER RECORDS CLERK

KGW:bc

Enclosure - Forms



DAVID H. JAMES
CONSULTING PETROLEUM ENGINEER
2119 FIRST NATIONAL BANK BUILDING
DENVER 2, COLORADO

DRILLING AND COMPLETION REPORT

NO. 1 STATE ROZEL

SE/4 SE/4 SECTION 8

TOWNSHIP 8 NORTH, RANGE 7 WEST

BOX ELDER COUNTY

UTAH

Prepared for MR. CHARLES E. KING

AUGUST 4, 1964

11.

DRILLING AND COMPLETION REPORT

No. 1 STATE ROZEL
SE SE Section 8, T. 8 N., R. 7 W.
Box Elder County, Utah

June 30, 1964:

Attempted to move in drilling rig. Rig was stuck in mud flats off end of ramp.

July 1, 1964:

Rig jacked up and placed on timbers. Constructed timber roadway to wellsite.

July 2, 1964:

Rigged up drilling rig. Dug mud pits and spudded well at 3:15 P.M.. Sample of water seeping into mud pits tested 285,000 PPM NaCl. Drilled 7-7/8" hole to 96', pulled bit and shut down. Samples from surface to 96' were soft grey to black muds with occasional white streaks.

July 3, 1964:

Drilled soft mud as before to 122' where drilling slowed to 3 to 5 minutes per foot. Shut down and mixed mud at 126'. Pulled bit at 131' and ran hardrock bit, resuming drilling at 12:20 P.M.. Increased viscosity of mud to 45 seconds. Drilling became exceedingly rough at 149' (top of main Basalt). Had shows of asphalt at 124.5', 133'-135', and at 150'. Drilled to 157' and pulled bit and shut down. Circulated samples from 149' to 157' were black to dark green with an abundance of asphalt shows.

July 4, 1964:

Increased viscosity of mud to 60 seconds. Ran 17-1/8" hole opener with 7-7/8" pilot bit and opened 7-7/8" hole to 17-1/8" from surface to 124'. Drilling got very rough and twisted three joints of drill pipe trying to drill ahead. Pulled out of the hole at 2:30 P.M. and shut down.

July 5, 1964:

Operations suspended while waiting for contractor to have additional drill collars sent to location from Salt Lake city yard.

July 6, 1964:

Ran in hole picking up additional drill collars and opened 7-7/8" to 17-1/8" hole from 124' to 153'. Pulled out and shut down.



July 7, 1964:

Rigged up and ran 5 joints of 13-3/8", 48#/foot, ST&C casing. Cemented casing at 153' with 100 sacks salt saturated 50-50 pozmix with 2% gel. Circulated approximately 25 sacks to the surface. Used top and bottom wooden plugs. Placed Howco centralizers at 151', 120' and 87'.

13-3/8" Casing Detail:

Bottom 1.50' Howco 13-3/8" guide shoe

Next 158.40' 5 joints 13-3/8", J-55, 48#/ft. ST&C casing

Total 159.90'

6.90' Cut off of landing joint

153.00' Casing landing depth

July 8-9, 1964:

Shut in waiting on cement to set.

July 10, 1964:

Ran in hole with 7-7/8" bit, drilled wooden cementing plugs and drilled new hole to 161'. Drilling very rough. Pulled bit and shut down. Samples from 157' to 161' were black to dark green with an abundance of asphalt shows.

July 11, 1964:

Ran in hole with 12" bit, mixed additional mud and drilled 12" hole from 157' to 172'. Drilling very rough, drilling rate 15 to 20 minutes per foot. Samples were same as previous day.

July 12, 1964:

Finished drilling 12" hole to 177.5'. Circulated hole clean and blew drilling mud out of hole to 80'. Bailed hole dry. Samples were same as previous day. Rigged up and started running bottom hole pump assembly.

July 13, 1964:

Finished running bottom hole pump assembly. Tested same and shut down operations at Noon. Contractor prepared to move off drilling rig.

DAVID H. JAMES

Consulting Petroleum Engineer

#1 STATE ROZEL SE SE 8-8N-7W

Boxelder County, Utah

Sample Description

122-	·124½	basalt w/fair amt jade grn soft mineral (probably
	1263	chlorite), moderate amt asphalt basalt w/minor amt grn mineral, minor amt asphalt
	1283	basalt w/less grn mineral, tr asphalt
	131	same w/minor amt ls, dense wh to lt gr sl silc
	133	ls, dense wh to lt gr, ptly oolc, tr mineralization such as chalcopyrite, sl silc, occ basalt fragment in ls; 40% basalt
	135	ls, dense wh to gr, ptly oolc, sl silc, abund grains and pebbles of basalt, orange silc calc pebbles and other detritus, almost a conglomerate, abund asphalt
	136½	cgl, gr of basalt, orange silc calc and silc ls pebbles w/calc cement, moderate amt asphalt
	139	ls, dense gr silc w/incls os silc ls pebbles and basalt, fairly abund asphalt
	14.1	same, also basalt
	143	ls, it gr; basalt 40%; v abund asphalt
	145	same
		same w/ls, crm to lt gr
	149	ls, dense crm silc; basalt 40%; fair amt asphalt
	151%	basalt, minor amt asphalt
	153	basalt, occ calcite vein, fair amt asphalt
4.1		same w/minor amt asphalt
		basalt
*	161	same
i., '	T05%	same v abund asphalt on basalt and wood fibers (evi-
	* TOT	dently lost circ material)
	760	v abund asphalt on wood fibers
	169	same
	173	same



#1 State Rozel continued

Generalized Interpretive Sample Description

- 122-130 basalt with soft green mineral, probably chlorite, common at top and decreasing toward the base
- 130-149 conglomerate or conglomeratic limestone, lightcolored siliceous limestone with pebbles of basalt, siliceous limestone and other material embedded

149-177½ basalt

Discussion

From bottom up the sequence of events was apparently a lava flow followed by shallow water limestone deposition with a considerable amount of basalt and other pebbles deposited along with the limestone. This was followed by another lava flow that may have somewhat mineralized the conglomeratic limestone.

The asphalt must occur at least partly in fractures in the basalt, since asphalt was found before the conglomeratic limestone was drilled. It may also occur in fractures or voids in the conglomeratic limestone. It is also possible that the lower basalt has fractures with asphalt in them. From samples there was no indication of any regular porosity in any of the rock, but voids larger than the samples could still be present.

It is difficult to say whether or not the bottom of the hole was still in asphalt bearing rock. Once the asphalt started coming in the hole it would tend to contaminate any deeper samples.

> Warren B. Scobey Consulting geologist 14182 West 22nd Avenue Golden, Colorado 80401 August 3, 1964

Form OGCC 4

STATE OF UTAH

GAS CONSERVATION COMMISSION Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

this form as provided (See back of form.) DUPLICATE	SONOS	Well Status Oil Bbls.	s Frederick S. Prince, Jr. E. 2nd South Street	correct report of operations and p	Box Elder F
*STATUS: F. SI G		Water Cas Bbls. MCF's	Company Signed Agent's title	and production (including	Field or LeaseR
F-Flowing P-Pumping GL-Gas Lift SI-Shut In D-Dead GI-Gas Injection TA-Temp. Aban. WI-Water Injection	Contents of Gas; and Gas-Oil Ratio Test) No. of Days Produced The #1 we 1 has been shut in while the first 2.3,4,5 were being drilled. These last 4 wells are now being drilled. These last 4 wells are now being comelectuse of a wait on electric motors of the proper speed. Actual production should start about the first of August.	No. Femarks	Charles E. King Charle	(including drilling and producing wells) for	Rozel State

H. J. Reginald 4340 Woodman Ave. Sherman Oaks, California

STATES PATENT **OFFICE** UNITED

2,404,871

LUBRICATING COMPOSITIONS

Paul R. Van Ess, Berkeley, Forrest J. Watson, Oakland, and Gary M. Whitney, Piedmont, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

> No Drawing. Application July 28, 1943, Serial No. 496,678

> > 12 Claims. (Cl. 196--13)

This invention relates to sulfur-containing additives used to produce improved lubricants and stabilized organic compositions, to methods of preparing concentrates of naturally-occurring sulfur-containing additives for lubricating oils 5 and greases, and to improved methods of inhibiting oxidative decomposition and lubricating internal combustion engines, particularly those containing corrosion-sensitive alloy bearings.

It was quite generally believed heretofore that 10 relatively high boiling sulfur compounds naturally occurring in petroleum crudes were good inhibitors for lubricating oils, imparting to them anti-corrosive properties and oxidation stability. ing oils have appeared on the market for which certain superiorities are claimed. However, in many cases such claims cannot be verified by laboratory and engine tests. Moreover, it was found that as a rule these high sulfur lubricating 20 oils have a very strong and dangerous tendency to form lacquer, sludge and carbon on pistons and piston rings, particularly in high temperature operation.

It has now been discovered however that 25 among the naturally-occurring sulfur compounds in petroleum oils there are beneficially active as well as inactive and even detrimental varieties and that the beneficially active compounds can be extracted from the oils in which they occur to produce concentrates of relatively high non-corrosive sulfur content, which, when added to well refined lubricating oils, impart to them good oxidation stability and anti-corrosive properties without materially increasing their 35 tendency to form lacquer, sludge and carbon.

It is accordingly an object of this invention to produce from crude petroleum, sulfur concentrates which, when added to refined lubricating oils and the like, act as oxidation and corrosion inhibitors without materially increasing the lacquering and sludge depositing tendency of the base oil. A further purpose is to provide lubricating compositions having decreased tendencies to attack modern alloy bearings. Another object

is to obtain superior aviation and Diesel engine, heavy duty lubricating oils. A still further purpose is to produce novel sulfur-containing petroleum fractions which contribute valuable anticorrosive, anti-oxidant, anti-wear, high film strength and/or other advantageous properties to organic compositions in which they are incorporated. Other objects will be apparent from the following description.

It has been determined that the anti-corrosive and anti-oxidant properties of the desirable natural petroleum sulfur compounds are associated with the availability or activity of the sulfur in them. If the compounds or mixtures thereof, As a result, several high sulfur-content lubricat- 15 such as those obtained from petroleum by the hereinafter described methods have low sulfur availabilities, they are themselves substantially non-corrosive to bearing surfaces but may fail to inhibit other types of corrosion. If, however, their sulfur availability is above a certain minimum, they will inhibit against both bearing corrosion and oxidative decomposition and may also contribute other valuable properties to the lubricating oil to which they are added. Some of these additives may produce a brown or colored film on metal bearing surfaces in engine operation. With others, (notably the hereafter described Utanol raffinates) this discoloration of copper surfaces may be substantially absent, but the anti-corrosive and anti-catalytic properties which the sulfur compounds contribute to the lubricating oil are still prominent. Some of these sulfur compositions (e.g. the Utanol raffinates) also possess material anti-wear properties and/or the ability to enhance or prolong the anti-wear properties of other anti-wear agents.

> The reactivity or availability of the sulfur in various compounds is defined as the percent sulfur (calculated on the total sulfur content in the compound or mixture) which will react with metallic copper under certain conditions. It is determined by heating at various temperatures samples of the compositions with an excess (over the amount equivalent to the sulfur content) of finely divided metallic copper for a standard pe

3

riod of time, here taken at 16 hours. The copper sulfide formed is then determined quantitatively as by oxidizing the sulfide with bromine and precipitating the resultant sulfate with barium chloride. If the percent of sulfur reacted is plotted against the reaction temperatures for various sulfur compounds or high sulfur content oils, a family of curves is obtained which at relatively low temperatures are quite close together. However, at temperatures of say 300° C. the 10 curves separate widely and the availability of the sulfur as determined at this temperature gives a reasonable correlation for various petroleum derived sulfur compounds with their inhibiting efficacy when incorporated in refined lubricating 15 oils. At this particular temperature, compounds having sulfur availabilities below about 15% (for example those in West Texas high-sulfur lubricating oil extracts) are of little if any effect, compounds of higher availability, i. e. above about 15% and preferably above about 20% (for example, those in Utanol raffinates) are highly effective.

The availability of these sulfur compounds has 25 been correlated with their anti-corrosiveness in lubricating oils, for example by determining the comparative weight losses of copper-lead bearings subjected to the action of lubricating oils containing standard amounts of these sulfur additives 30 plus a commonly used detergent, which, although contributing other valuable properties, causes or increases corrosiveness of the lubricating oil. Thus various blended oils have been tested and compared by a procedure known as the Thrust 35 Bearing Corrosion test, which was described in the National Petroleum News, September 17, 1941, pp. R 294-296.

Fractions or concentrates of active sulfur compounds may be obtained by various methods from 40 various high sulfur petroleum crudes which contain them. In most crudes, the concentration of these compounds is quite low, and special methods (which are described later) are required in order to recover them in relatively high concentration, 45 so that they may be added to refined lubricating oils in effective amounts without materially changing the desirable properties of the latter. As a rule, it is poor practice to add to a well refined lubricating oil more than about 10% of any 50 addition agent. The effective amounts of sulfur which must be added to various refined lubricating oils in the form of active sulfur compounds usually are on the order of 0.1% to 0.3% by weight of refined oil, although quantities of be- 55 tween 0.02% and 1% may be useful. In a semiplastic composition such as a grease, higher amounts may be employed. Therefore, it is desirable, if not essential, that the sulfur content of a concentrate of active compounds be at least 60 2% and preferably 5% or higher.

As previously indicated, the indiscriminate addition of natural petroleum sulfur compounds tends to cause an increase in lacquering and sludge depositing tendencies of the blended oils. This however can be minimized by properly refining either the oil from which the active high sulfur concentrates are produced or the concentrates themselves before they are added to lubricating oils. Such refinement includes substantial elimination of asphaltic materials and a treatment capable of separating aromatic from nonaromatic hydrocarbons, for example, by precipitating with cessful. If desire in a liquid C4 to C4 kerosene, etc., and ural gas, propane, other gases may be different to different includes substantial region of asphaltic materials and a treatment capable of separating aromatic from nonaromatic hydrocarbons, for example, by precipitating with cessful. If desire in a liquid C4 to C

4

2,315,131, sulfuric acid treatment, solvent extraction, selective hydrogenation, etc., or a combination of such treatments, preferably under conditions not to reduce the sulfur content of the concentrate excessively, i. e. so that not more than about 1/3 of the total sulfur content is lost. In other words, our concentrates are "raffinates," "raffinates" as commonly understood in the petroleum industry being relatively paraffinic petroleum fractions from which naturally associated aromatics have been removed. Whether the sludging tendency is the result of over-activity of certain sulfur compounds (as might well be) or is due to the presence of other associated compounds, is not known at this time. However, this is immaterial, as it is sufficient that a treatment adapted to remove aromatics from hydrocarbon mixtures will achieve the desired result.

cating oil extracts) are of little if any effect, while certain other natural petroleum sulfur 20 fur compounds in concentration sufficient to recompounds of higher availability, i. e. above about 15% and preferably above about 20% (for example, those in Utanol raffinates) are highly effective.

In general, crudes which contain the active sulfur compounds in concentration sufficient to recover them in relatively concentrated form, are of highly asphaltic nature such as certain California (particularly Mount Poso, Coalinga, Santa Maria) and Venezuelan crudes.

Outstanding is an oil known to the trade as "Utanol" which is an asphaltic petroleum crude obtained from snallow wells in the Great Salt Lake area and southern Idano. The oily fraction separated from this material is known as "Utah oil." Utanoi varies in sulfur content from about 10% to 15%, has a specific gravity of about 1.0 to 1.1, a saponification number of around 10 to 20, naphtha insolubles of 10% to 15%, and contains about 40% to 70% asphalt as determined by precipitation with about 6 volumes of n-butane at 60° to 100° C. It has no appreciable content of phenols.

Methods for obtaining an oil fraction having the desired concentration of active suifur compounds from crudes having a suifur content above 5%, such as Utanol, are relatively simple. One such method specifically applied to Utanol is as follows:

The crude is first de-asphalted by any of the standard de-asphalting methods. This may be achieved by asphalt precipitation or distillation, or both. The precipitation method is preferred because of the extremely high asphalt content of the Utanol which may interfere with the proper distillation and result in cracking of the asphalt and the inclusion of harmful cracked material in the distillate.

The precipitation may be carried out by mixing the Utanol with several volumes of a liquid light hydrocarbon oil comprising predominantly or consisting of C3 to C6 hydrocarbons, preferably at a temperature within about 75° to 100° C. of the critical temperature of the latter. Thus propane or propylenes at normal room temperature, butanes or butylenes at temperatures of 60° C. or above are well suited. Dissolving in benzene and precipitating with isopentane also proved successful. If desired, the crude may be dissolved in a liquid C4 to C12 hydrocarbon, naphtha, light kerosene, etc., and gaseous methane, ethane, natural gas, propane, fuel gas, water gas, CO, CO2 or other gases may be introduced at high pressures to effect or complete the asphalt precipitation. Moreover, selective so-called "naphthenic" solvents may be present, such as liquid SO2, furfural, nitrobenzene, beta, beta'-dichlor-diethyl ether, phenol, cresylic acids, aniline, methylsulfolane, dimethylsulfolane, or a large number of others Ē

If the crude oil contains relatively low boiling components, as gasoline, kerosene, etc., they may be flashed from the crude prior to the precipitation or else may be separated later by fractional distillation of the deasphalted raffinate oil.

The supernatant liquid layer, i. e. the raffinate phase resulting from asphalt precipitation and containing the desired oil, is now separated from the precipitated asphalt. This oil must be further refined to reduce its lacquer-imparting tenden- 10 cies.

Depending on the conditions of the precipitation, the nature of the solvents employed and the nature of the crude itself, one of several ways may be followed. Obviously the more drastic the precipitation conditions are, the less drastic need be the second treating step which involves (as previously indicated) a treatment adapted to remove aromatic hydrocarbons. Solvent extraction may be employed with any one of the well known 20 selective "naphthenic" solvents previously mentioned. Treatment with strong, i. e. 93 to 100% sulfuric acid is usually desirable and effective. Amounts of sulfuric acid ranging anywhere from 5 to 100 pounds per barrel of the raffinate oil may 25 be employed.

Several treatments may be combined and the second refining treatment may be carried out in the presence or absence of the light hydrocarbon liquid employed in the precipitation; generally 30 its presence may be helpful in the second step. The undesirable components, if any (which may be in the form of sludge, extract, etc.); produced in the second refining treatment, are now separated. Solvent, if present, is removed in the usual manner as by distillation or washing with water or wash solvent, and the recovered high sulfur oil may be given a finishing treatment with clay (such as fuller's earth, acid activated clay, etc.), bauxite, zeolite, silica gel or other adsorbents.

The specific dispersion of the treated high sulfur raffinate oil is often a fair indication of its lacquer imparting tendencies. It is desirable that the specific dispersion be below about 160, more preferably below about 140 or 145. Also, the color may be an indication if taken together with the specific dispersion. Preferably, the color should be better than 6 (A. S. T. M. or National Petroleum Association Scale).

Samples of treated Utanol raffinate oils from

Ability of Utanol raffinates to decrease wear was determined on a Multiple Four Ball machine similar in principle to the Boerlage apparatus described in the magazine Engineering, volume 136, July 14, 1933. This apparatus comprises four steel balls arranged in pyramid formation. The top ball is rotated by a spindle against the three bottom balls which are clamped in a stationary ball holder. All balls are immersed in the oil to be tested. The tests are run for two hours at 700 R. P. M. under a 7 kg. load and at a controlled temperature of 130° C. Diameters of the wear scars worn on the three balls forming the base of the pyramid are then measured, and the average taken as the true indication of wear. Results were as follows:

	-	Lubricant	Scar diameter in millimeters	
)	1	Refined aviation lubricating oil, API gravity		
	2	about 26, SU at 210° F. about 115-125	0.7	
	-	raffinate, ΔS=0.10%	0.47	
	3	Oil #1 containing clay treated Utanol Pilat raffinate, $\Delta S = 0.30\%$	0.36	

Oxidation tests were made with the same oil to determine the time required for the absorption of 1800 cc. of oxygen by 100 g. of oil in the presence of 1 cm.² of copper surface/gram of oil at 150° C. The following data are typical:

Oil No. 1 (as above) ______ 9.3 Oil No. 2 (as above) _____ 48

This Utanol raffinate was also tested in the Thrust Bearing Corrosion test, referred to earlier, employing a compounded heavy duty truck and bus or Diesel lubricating oil. It contained in each case 1% of the magnesium salt of lauryl salicylate which has been a widely used lubricating oil detergent, but which, although otherwise beneficial, imparts corrosive properties to the lubricant. In 20 hour tests at 125 lbs. thrust and 2400 R. P. M. with this oil, the copper-lead bearings showed a weight loss at 130° C. of 15 mg./cm.² When tested with this same oil, to which had been added a clay treated Utanol Pilat raffinate, ΔS=0.10%, the bearings showed no weight loss at 160° C.

Chevrolet engine tests using procedure L-4-243 of the Cooperative Lubricants Test Program were also made using a corrosive S. A. E. reference oil. Results were as follows:

	Varnish rating	<i>a.</i> .	Bearing	Used oil properties		
		Sludge rating	wt. loss, mg./cm. ²	Sap. No. mg. KOH/g.	Neut. No. mg. KOH/g.	
Base oil. Base oil + Utanol raffinate ΔS=0.10% Base oil + Utanol raffinate ΔS=0.10% Base oil + Utanol raffinate ΔS=0.30%	105 106. 5 109. 5 104. 5	73 70. 5 72 73	84. 0 33. 4 21. 7 3. 2	22. 2 25. 1 26. 8 9. 98	3. 6 4. 6 4. 2 2. 8	

different batches had the following properties:

	General range	One acid treated Pilat raffinate
Gravity.4°0 Viscosity at 100° F	0. 98-1. 0 950-1400 34-39 40-55 130-145 4-7. 5 0-8	0. 9880 1, 018 34. 7 53 132 414 0. 9
Ultimate analysis: Carbonper cent weight Hydrogendo Sulfurdo Nitrogendo	A clay treated Pilat raffinate 76. 27 10. 90 12. 7 0. 14	11. 9 0. 06

The action of a Utanol raffinate in increasing the efficiency of an anti-wear agent, the calcium salt of methylene bis p-isooctylphenol, may be seen from the following data of piston ring weight loss in a CFR-Diesel engine. Test conditions: 1400 R. P. M.; load, 68 lbs./in.² brake mean effective pressure; jacket temp. 100° C.; oil temperature 70° C.; compression ratio 16:1; 47 cetane number commercial Diesel fuel; base oil, commercial Diesel lubricating oil S. A. E. 30; test length, 4 runs of 13 hours, results reported for overall period.

	Additive	Piston ring weight loss, mg.
None Ca salt of methyl	73.4 31.6	
Ca salt of methyl Ca salt of methyl plus Utanol raff	29.6	

The Utanol raffinates also possess other desirable characteristics when incorporated in a lubricating oil, such as anti-scuffing and anti-scratching properties in Diesel engines. Their beneficial activity may also be enhanced by utilization in the presence of small amounts of synthetic organic sulfur-containing anti-oxidants, e. g. dibenzyl sulfide or disulfide, wax disulfide, diphenyl sulfide, sulfurized sperm oil, sulfurized olefin polymers, sulfurized wax olefins (obtained in the cracking, or by chlorination and dehydrochlori-

relatively high specific dispersion or content of aromatics, the former often being considerably above 160, unless the solvent extraction and additional treatment preparatory to the solvent extraction was very drastic. If the specific dispersion of the sulfur concentrate is above about 145, the concentrate may again be solvent-extracted or sulfuric acid treated, etc., to further reduce its aromaticity and specific dispersion to below about 140 in order to produce an addition agent for lubricating oils which has the least lacquer imparting tendencies.

In the table below, a comparison is made of the effect of the several sulfur concentrates on the oxidation stability (Dornte type oxygen absorption apparatus at 150° C.) in the presence of 1 square centimeter of copper per gram of oil of an S. A. E. 60 lubricating oil when added thereto in amounts to raise the sulfur content by 0.1%:

Source of petroleum material	Method of obtaining sulfur conc.	Spec. dispersion of sulfur concentrate $\frac{n_f-n_s}{d} \times 10^4$	Time to absorb 1800 ml. of 01/100 g. oil
Utanol Mt. Poso lubricating distillate, furfural raffinate, 55 V. I. Mt. Poso lubricating distillate, acid treated furfural raffinate,	None added. Asphalt precipitation-acid treating. Mercuric acetate in acetic acid. BbCls—AlCls.	132 126 143	Hours 9. 2 47. 7 52. 0 32. 1
60 V. I. Mt. Poso lubricating distillate, furfural raffinate, 55 V. I. West Texas distillate. Do.	Aluminum chloride Acid treat + extraction with HgAc; in HAc. Duosol extration followed by acid treat	158 196 200+	21.8 13 9.8

nation, of paraffin wax), bis-(methylene aryl or 35 alkaryl sulfides), etc.

As indicated before, when starting with crudes or fractions thereof having sulfur contents materially below about 5%, such as California and Venezuelan oils, different methods for recovering 40 the active sulfur compounds must be employed than that described for Utanol. Since oils having a relatively low sulfur content may display a ratio of aromatics to sulfur that is higher, for example, than with Utanols, it is necessary to 45 first remove from these oils some of the aromatics, as by selective solvent extraction with a "naphthenic" solvent of the type described earlier, and if necessary augment this treatment with others such as sulfuric acid treatment. Likewise, crudes 50 relatively low in asphalt and aromatic content do not show the desired concentration of the sulfur compounds by the removal of their smaller amounts of undesirable constituents. The sulfur components, however, can be concentrated 55 by methods such as the following:

Extraction with acetic acid containing a soluble mercury salt such as mercuric acetate, mercuric chloride, etc. to form a mercury complex extract which is then worked up to recover the extract oil and if necessary further refine the latter.

Extraction with a liquid mixture of SbCl₃ and AlCl₃ to form a complex which may be separated and decomposed to recover the oil.

Extraction with AlCl₃ at temperatures between about 0 to 80° C. as described in U. S. Patent 2,309,337 to form a complex which may be decomposed to recover the oil.

All three of these extraction methods yield relatively dark oils, even though the starting raffinate may have been of light color. Moreover, the SbCl3—AlCl3 extraction, as well as the AlCl3 extraction, tend to cause accumulation in the sulfur concentrate of whatever aromatics have been left over from the preceding solvent extraction, and therefore result in sulfur concentrates of

The method of concentrating sulfur compounds with the aid of mercuric acetate in acetic acid is described below in greater detail:

A sample of 50 V. I. Mt. Poso furfural raffinate was first extracted with glacial acetic acid to remove nitrogen bases. Glacial acetic acid saturated with mercuric acetate was then added to the oil, with stirring, in the amounts shown in the table below. The mixture was allowed to settle and the lower layer drawn off. This extraction may be performed several times on a sample (as shown in the table) and the remaining oil then washed with acetic acid to remove the remaining mercury compounds. It is also advantageous to carry out the extraction in the presence of an inert, oxygen-excluding agent such as nitrogen or natural gas which may be bubbled through the liquid to minimize oxidation. The extracts and acetic acid end-wash are then combined. The acetic acid may be distilled off and the mercury then released from the oil, for example, by heating say to 100° C, with dilute acid (e. g. 2 vols. of 15% HCl) or by saturating with H2S, the oil then being diluted with isopentane or other suitable solvent, water-washed, dried and clay-treated before removal of solvent.

The variables for several such runs are shown in the following table:

65		Run number				
		I.	п	ш		
	Weight of oil used, gms No. of dumps of reagents	620	901	738		
	Volume of acetic acid, mls	190	215	150		
70	mls	485	660	540		
	Temperature of treatment, ° C	30	18	50		
	Total treating time, minutes Weight per cent yield of extract (on	90	135	50 165		
	oil)	4.8	. 4.8	5.4		
	Per cent sulfur remaining in oil Per cent sulfur in extract oil (aver-	0.15	0.14 (7)	0. 16 (4)		
75	age)	8.60	3.88	2. 52		

9 10

Extract from Run No. II was incorporated in white oil to the extent of 3%. This increased the time required for 100 g. to absorb 1800 ml. of oxygen from less than 2 to 236 hours. Corresponding extracts obtained at higher (e.g. reflux) temperatures were considerably less effective.

It has been found that when this mercuric acetate extraction of the oil is carried out at room temperature or lower (i. e. below about 20° C. and preferably near the melting point of 10 acetic acid) the content of desirable sulfur constituents in the extract is greater than if the oil is refluxed or maintained at a higher temperature while treating with the mercury salt. In general, any mercury salt, particularly the mer- 15 curic salts soluble in acetic acid such as the oxalate, carbonate, chloride, sulfate, etc. or their mixtures, may be employed in like manner as the mercuric acetate, since these salts will give mercuric acetate in the acetic acid solution. The 20 solubility of the acetate is considerably greater than for the other salts, hence it is generally more advantageous to start with the mercuric acetate. As compared with salts of other metals, the mercury salts are definitely superior for this 25 purpose as shown by the foregoing data.

The herein described compositions possessing the required amount of available or reactive sulfur may also be incorporated advantageously in extreme pressure lubricants, cutting oils, roll oils, 30 wire drawing lubricants, greases, hypoid gear lubricants, etc. They may also be used to impart anti-wear and/or anti-oxidant properties to lubricants not necessarily subject to high pressure, such as turbine oil, refrigerator oil, lubri- 35 cants for bearings, in particular, modern alloy bearings comprising cadmium-silver, cadmium-nickel, copper-lead, "high lead" alloys, as well as Babbit metal, and the like. The lubricating media also need not be derived in whole or in part from 40 mineral oil but may consist in whole or part of vegetable or animal lubricants such as palm oil, cottonseed oil, fish oil, animal wax, phosphatides, etc., as well as the so-called synthetic lubricants (e. g. polymers of olefins derived from cracked 45 wax). In addition, by reason of their antioxidant properties, such additives may be incorporated advantageously in organic substances not intended for use as lubricants at all, such as gasoline, kerosene, spray oil, medicinal oil, trans- 50 former or electrical insulating oil, cleaning fluid, synthetic or natural rubber, Diesel fuel, photographic developers, etc.

Particular reference may be made to the inclusion of the herein described anti-oxidants as 55 additives for coating materials such as asphalt, resins, oils, waxes, varnish, insulating or moisture-protective substances such as oiled or "waxed" paper, etc. Such plastic or semi-plastic vehicles may also contain, for example, anti- 60 rusting agents and be applied to metal surfaces to provide a corrosion-resistant coating. Also such oxidation inhibited adhesive coatings may be applied to wood, paper, cardboard, felt, stone, laminated glass, fabric, concrete, plastic composi- 65 tions, Transite board, etc., by such methods as roller coating, dipping, brushing, spraying and the

When the sulfur compounds of this invention are intended for addition to lubricating oils, they 70 about 2% to 15%. or the concentrates which contain them should have boiling temperatures above gas oil range and preferably within or above lubricating oil range.

used in connection with other additives in lubricating media, for example, detergents formed from the oil-soluble salts of various bases with detergent forming acids. Such bases include metallic as well as organic bases. Metallic bases include those of the alkali metals, as well as Cu, Mg, Ca, Sr, Ba, Zn, Cd, Al, Sn, Pb, Cr, Mn, Fe, Ni, Co, etc. Organic bases include various nitrogen bases as primary, secondary, tertiary and quaternary amines.

Examples of detergent forming acids are the various fatty acids of, say, 10 to 30 carbon atoms, wool fat acids, paraffin wax acids (produced by oxidation of paraffin wax), chlorinated fatty acids, aromatic carboxylic acids including aryl fatty acids, aryl hydroxy fatty acids, paraffin wax benzoic acids, various alkyl salicyclic acids, phthalic acid mono esters, aromatic keto acids. aromatic ether acids; diphenols as di-(alkyl phenol) sulfides and disulfides, methylene bis alkylphenols; sulfonic acids such as may be produced by treatment of alkyl aromatic hydrocarbons or high boiling petroleum oils with sulfuric acid; sulfuric acid mono esters; phosphoric acid mono and di-esters, including the corresponding thiophosphoric acids; phosphonic and arsonic acids, etc.

Non-metallic detergents include compounds such as the phosphatides (e.g. lecithin), certain fatty oils as rapeseed oils, voltolized fatty or mineral oils.

Other detergents are the alkali earth phosphate di-esters, including the thiophosphate di-esters; the alkali earth diphenolates, specifically the calcium and barium salts of diphenol mono and poly sulfides; etc.

Our sulfur additives may also be used in association with other anti-oxidants, for example alkyl phenols such as 2.4.6 - trimethylphenol, pentamethylphenol, 2.4 - dimethyl - 6 - tertiarybutylohenol, 2.4-dimethyl-6-octylphenol, 2.6-ditertiary-butyl-4-methylphenol, 24,6-tri-tertiarybutylphenol, etc.; amino phenols as benzyl amino phenols; amines such as dibutylphenylenediamine, diphenylamine, phenyl-alpha-naphthylamine, phenyl-beta-naphthylamine, dinaphthyl amines: etc.

Other corrosion inhibitors may also be present such as dicarboxylic acids of 16 and more carbon atoms, alkali metal and alkali earth salts of sulfonic acids and fatty acids, etc.

Likewise, other additives may be present in a lubricating oil or grease such as blooming agents, anti-foaming agents, viscosity index improvers.

Instead of first producing the herein described additive and then adding it to a lubricating oil, high sulfur asphaltic crude such as raw Utanol may be added to a crude petroleum, for example a topped crude suitable for the manufacture of lubricants, and the mixture then subjected to one or several treatments adapted to remove substantially all asphaltenes and at least a portion of aromatic hydrocarbons such as previously described. Amounts of this high sulfur oil which may be added to the crude lubricating stock vary with the amount and availability of the sulfur content of the former, as explained before, and may range preferably from

We claim as our invention:

1. A process for obtaining a sulfur-containing fraction possessing anti-oxidant and other valuable properties, which process comprises ex-These compounds may also be advantageously 75 tracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting mercury salt-sulfur compound complex to regenerate and recover the extracted sulfur compounds.

2. A process for obtaining a sulfur-containing fraction possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under conditions of atmosphere and temperature to substantially avoid any oxidation and to produce a mercury salt-sulfur compound complex, and breaking the resulting complex to regenerate and recover the extracted compounds.

3. A process for obtaining a sulfur-containing fraction possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt at a temperature below about 20° C. and breaking the resulting sulfur complex to recover the extracted sulfur

compounds.

4. A process for obtaining a sulfur-containing fraction possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with glacial acetic acid saturated with mercuric acetate and breaking the resulting sulfur complex to recover the extracted sulfur compounds.

5. A process for obtaining a sulfur-containing fraction possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil saffinate with a mercury salt at a temperature not above about 50° C., thereby producing a mercury salt-sulfur compound complex, and breaking the resulting complex to regenerate and recover the

extracted compounds.

6. A process for obtaining a composition possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt at a temperature not above about 50° C., thereby producing a mercury salt addition compound, and breaking the resulting addition compound to regenerate and recover the extracted compounds.

7. A process for obtaining a composition possessing antioxidant and other valuable properties, which process comprises treating a substantially paraffinic lubricating oil raffinate with glacial acetic acid saturated with mercuric acetate, thereby producing a mercuric acetate addition compound, and breaking the resulting addition compound to regenerate and recover the extract-

ed compounds.

8. An organic composition comprising a predominant amount of an organic substance which is unstable against oxidative deterioration and which is responsive to sulfur-containing anti-oxidants, and an added beneficiating amount of natural-occurring sulfur-containing compounds from petroleum oil possessing antioxidant and 65 other valuable properties prepared by the process which comprises extracting a substantially

paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting mercury salt-sulfur compound complex to regenerate and recover therefrom the extracted compounds.

9. An organic composition comprising a predominant amount of a mixture of hydrocarbons, which mixture is unstable against oxidative deterioration and which is responsive to sulfur-containing antioxidants, and an added antioxidant amount of a concentrate of natural-occurring sulfur containing compounds from petroleum oil possessing antioxidant and other valuable properties prepared by the process which comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting complex to regenerate and recover the extracted compound.

10. An oleaginous composition comprising a predominant amount of an oleaginous material which is unstable against oxidative deterioration and which is responsive to sulfur-containing antioxidants, and an added antioxidant amount of a concentrate of natural-occurring sulfur-containing compounds from petroleum oil possessing antioxidant and other valuable properties prepared by the process which comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting complex to regenerate and recover the extracted compound.

11. A lubricant comprising a predominant amount of a refined mineral oil, a small added amount of a normally corrosive detergent, and an added small amount sufficient to render the resultant mixture substantially non-corrosive of a concentrate of natural-occurring sulfur-containing compounds from petroleum oil possessing antioxidant and other valuable properties prepared by the process which comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting complex to regenerate and recover the extracted compound.

12. A lubricant comprising a predominant amount of a refined mineral oil and characterized by a normal tendency to corrode metal bearing surfaces, and an added corrosion-inhibiting amount of a concentrate of natural-occurring sulfur-containing compounds from petroleum oil possessing anticorrosive and other valuable properties prepared by the process which comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting complex to regenerate and recover the extracted compound.

All fathers and selection of the control of the con

PAUL R. VAN ESS. FORREST J. WATSON. GARY M. WHITNEY.

PIP

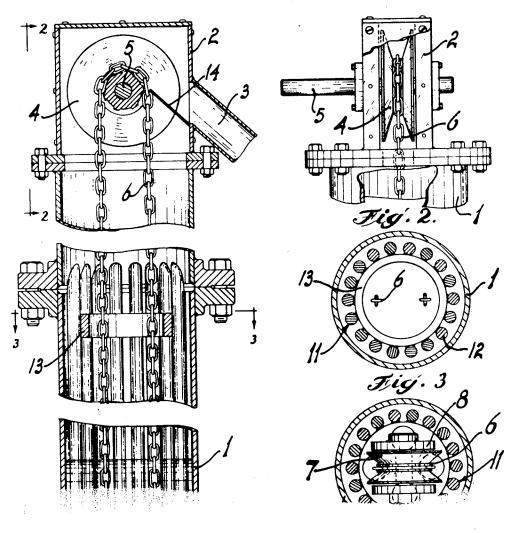
March 29, 1955

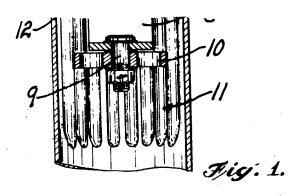
G. L. GUSTAFSON

2,704,981

APPARATUS FOR LIFTING HEAVY OIL

Filed Nov. 30, 1953





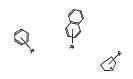
INVENTOR.

GOTTFRID L. GUSTAFSON.

BY

N. A. Tuckman.

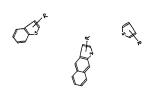
ATTORNEY.



UNION PETROCHEMICALS

R-S-R

Test on Well



R-S-H

HIGH SULPHUR BASES

Acid Resisting Varnish Anti-Corrosive Paint Asbestos Filler

Asphalt-Leather Composition

Horticulture Mulching Paper

Acid Proof Enamel Acid Proof Mastic Acid Resisting Coatings

Acoustical Blocks Armature Windings

Battery Boxes

Built-Up Roofs

Fungicides

Lubricants

Plastics Rubber

Varnish

Shoe Filler

Waterproofing

Caulking Compounds

Impregnating Material

Molding Compositions

Sulphur Blowing-Substitute Tree Surgery Compounds

Wire Rope Lubrication

Glazing Concrete

Insulating Paper Insulating Tape

Pipe Wrappings Pipe Line Coatings

FOR:

Director of Research Research & Development Department

Dear Sir:

Utanol Bases are characterized by their unusual content of non-corrosive sulphur - 12.5 %. The sulphur content by functional group is as follows:

Mercaptans

Sulfides

--- 38 %

Thiophenes

--- 54 %

Average specifications of Utanol are:

A.P.I. Gravity

9.4

Softening Point R & B

73 deg. F.

Resins

32.4 %

Asphaltenes

51 %

Distillation, atmospheric ---

17.3 % @ 492 deg. F.

37.6 % @ 662 deg. F.

In requesting material for examination, please specify Rafinate (light portion) or Residue (heavy asphaltic portion) or both.

Hoping to be of service to you, we remain,

Sincerely,

Lee Scott Marketing

LS/rr

UNION PETROCHEMICAL COMPANY, INC. Utanol Production. Research and Development, 248 South Lasky Drive, Beverly Hills, California, U. S. A. Long Distance Conference Phone (Station-to-Station) Area Code; 213, 275-9553. Cable Address: UPETROCHEM, Los Angeles, California, U. S. A. All price quotations are subject to market fluctuation, tariff and c.i.f. changes, immediate acceptance, prior sale and our confirmation unless otherwise stipulated.

th

July 20, 1964

MEMO FOR FILING:

Re: Charles E. King
Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

On July 17, 1964, I visited the above well site. The operator has completed drilling, but there were no personnel on the location to inquire of the status of the well.

The newly patented "chain-driven scraper" pump unit has been installed. It was reported that the company is waiting for fill-up to test for results.

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB:bc

cc: H. L. Coonts, Pet. Eng. Box 266 Moab, Utah



17.

June 26, 1964

Charles E. King P. O. Box 535 Wichita Falls, Texas

Re: Notice of Intention to Drill Well No.

ROZEL STATE #1, 1000' FSL & 800' FEL,

NW SE SE of Section 8, T. 8 N., R. 7

W., SLEM, Box Elder County, Utah.

Dear Sir:

Insofar as this office is concerned, approval to drill said well is hereby granted. However, this approval is conditional upon a bond being filed with the State Land Board, a surveyor's plat and Designation of Agent being filed with this office on/or before July 3, 1964.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to <u>immediately</u> notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer Office: DA 8-5771 or DA 8-5772 Home: CR 7-2890 - Salt Lake City, Utah

This approval terminates within 90 days if this well has not been spudded within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Please have the enclosed "Minimum Safety Requirements" notice posted in a conspicuous place on the drilling location.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT EXECUTIVE DIRECTOR

CBF:kgw

cc: Donald G. Prince, State Land Board, Salt Lake City, Utah

H. L. Coonts, Pet. Eng., Oil & Gas Conservation Commission, Mosb, Utah



Logy ble

PAIB

STATE OF UTAH

SUBMIT IN TRACLICATE* (Other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION						5. LEASE DESIGNATION AND SERIAL NO.				
								ML 3		
	Y FOR PERMIT 1	O DRILL, I	DEEPE	N, OR PI	LUG B	ACK	6. IF INDIAL	, ALLOTTE	E OR TRIBE NA	ME
	ILL 🖾	DEEPEN		PLU	JG BA	CK 🗆	7. UNIT AGI	EEMENT 1	NAME	
b. TYPE OF WELL OIL TX G.	AS 🗂			NGLE X	MULTIP	LE	8. FARM OR	LEASE NA	ME	
WELL W	VELL OTHER		zo	NE LAL	ZONE		1.0	1 State		
Charles E	King						9. WELL NO		<u> </u>	
3. ADDRESS OF OPERATOR			10.0				1	i i	Territoria.	
		olla Torroa					10. FIELD A	ND POOL.	OR WILDCAT	
P.O. Box	x 535, Wichita Faceport location clearly and	alls, lexas	th any S	ltate requiremen	rts.*)			l Fiel		
At surface	$\frac{1}{4}$ SE/4 Section		at of a	agt line		\$	1.5	<u> </u>		
NW/4 SE	/4 SE/4 Section						11. SEC., T., AND SU	EVEY OR A	REA	
At proposed prod. zor	ne	1000, noi	tn oi	south line			Soc	e Trei	N R7W	
14 prominon in her no	AND DIRECTION FROM NEA	DEGE TOWN OF DOS	T OFFICE	m *			12. COUNTY			
							Box I		Utah	
	wouthwest of Br	ignam City,		O. OF ACRES IN	T.MASE	1 17 NO 4	OF ACRES ASSI		1 Open	
15. DISTANCE FROM PROP LOCATION TO NEARES	ST.		15	200 acres			2 acres	<u></u>	基本等	
PROPERTY OR LEASE LII (Also to nearest drlg	g. line, if any)					00 ===	15. 1	moor a	<u> </u>	
18. DISTANCE FROM PROI TO NEAREST WELL, I	POSED LOCATION* ORILLING, COMPLETED,		i	ROPOSED DEPTH		_	RY OR CABLE	TOOLS		
OR APPLIED FOR, ON TH			25	0! 2		R	otary		ORK WILL STA	nm#
21. ELEVATIONS (Show wh							4 4 5			KT.
4202' gro	ınd level						JI	me 25	, 1904	
23.	3	PROPOSED CASI	NG ANI	CEMENTING	PROGR	AM			V 1	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	TOOT	SETTING D				Y OF CEME	INT	
16"	13-3/8	48		225'+	L		150 sa	KS 2		
							5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
with Rule lies furt for this .	oosed location, we C-3 of the State her than 660' from location is requested across the m	e of Utah Oil m the neare sted since the	l and st lea he we	Gas Conse se bounda 11 is to be	rvatio ry. ⁄ A drille	n Act i topogr d along	n that the aphic exc existing	well eption roadwa	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
zone. If proposal is to preventer program, if an 24.	TE PROPOSED PROGRAM: If drill or deepen direction by.	ally, give pertines	epen or mot data of	on subsurface lo	ocations a	present production of measure	ed and true ve	rucal dep	sed new produ ths. Give blo $\geq 23,\ 196$	wou
*****	·								**	
PERMIT NO.				APPROVAL DATE	<u> </u>			1 1 4 4 14		
									Hata a	
APPROVED BY CONDITIONS OF APPRO	VAL, IF ANY:	T	ITLE				DATI	· 		
	•							and the second second	and the second s	



